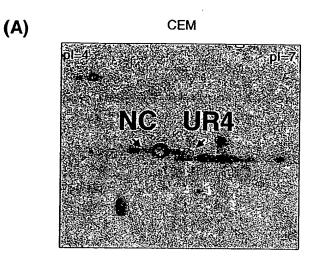
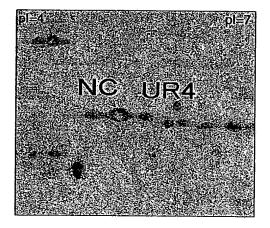
APPLICANT: E. Georges, et al. APPLN. NO.: TBA FILING DATE: December 15, 2003 TITLE: HSC70 Directed Diagnostics and Therapeutics for Multidrug Resistant Neoplastic Disease DOCKET No.: 112418.149 (AUR-011US) 1 of 30



**(B)** 

CEM/VLB



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### (A) Isoform 2 Results

Isoform 2 Results	Version 4.10.8		
ProFound - Search Result Summary	@ 1997-2000 ProteoMetrics		
	2 sequences searched]		
David Dishability Est'd 7 Protein Information and Sequence Analy	yse loois (1)		
The state of the s	Lem 8- near shuck - 12 to 12 to 12 to 12		
+1. [10e+000]: 2.36 70kD protein 8 (HSP/3), Attasmock cognate pro			

### (B) Search Parameters

Details for rank 1 candidate in search 200 1060 3200 436 0394 206 172 123 151
Defails for rank it canonate in souther the shock and protein 8 (HSP/3), heat shock cognate protein 8 (HSP/3), heat shock cognate protein 8 (HSP/3), heat shock cognate protein 8 (HSP/3).
ED/256//FELTITE 000-50-1 Industrial Solution
7] Ha heat shock 70kd protem 10 (HSC7) [Homo sapens]
ell 3639862 ref XP 1006086 2 heat/shock 70kD protein 3 [Homo/sepiens]
HILD CONTRACT OF A CONTRACT OF A PROJECT OF
HOLE SOLATED HUMAN/HEAT SHOCK COGNATE 71 KDAPROTEIN
gi87625[pir] A27077 dinaK-type molecular chaperone inuman
68/623 ppt A2X07 and CYP material and CYP material and CYP and
el 32467[emblCAA684451] (7(0371)) 71 Kd heat shock cognate protein [Homo samens]
gi 13273 30 4 gti AAK 17898 1 AF 352832 (AF 352832) constantive heat shock protein 70 [Homo sapiens]
Sample IDE / MO CHARCE [Des 0]
Measured peptides ( 20:
Harched peptides
macched Person and a second
Hin sequence coverage 251

### (C)

<u>12 Peptides</u> <u>Sequenced*</u> - 1	Measured Av Mass(M) M 1250.623	vg/ Mono M	· ·	Error (ppm) 10	Residu Start 237	1es M To 246	lisse Cut 0	ed Peptide sequence MVNHFIAEFK (1)+O@M;
- 2	1252.592	м	1252.608	-13	302	311	0	FEELNADLFR
- 3	1406.696	м	1406.712	-12	237	247	1	MVNHFIAEFKR
								(1) +O@M;
- 4	1479.743	м	1479.746	-2	300	311	1	ARFEELNADLFR
- 5	1486.756	м	1486.693	42	37	49	0	TTPSYVAFTDTER
- 6	1690.705	м	1690.718	-7	221	236	0	STAGDTHLGGEDFDNR
- 7	1786.968	м	1786.982	- 8	172	188	1	IINEPTAAAIAYGLDKK
- 8	1820.874	м	1820.883	-5	57	72	1	NQVAMNPTNTVFDAKR
-	1020101-							(1) +O@M;
- 9	1837.001	м	1837.005	-2	326	342	1	LDKSQIHDIVLVGGSTR
-10		м	1951.052	7	452	469	1	DNNLLGKFELTGIPPAPR
-11		м	1980.990		138	155	0	TVTNAVVTVPAYFNDSQR
-12		м			424	447	0	QTQTFTTYSDNQPGVLIQVYEGER
	1 2							

\*25% of the amino acids of the HSC70 protein were represented in the amino acids of the mass peptides analyzed.

Figure 2

C. M. C. S. Martin Martin

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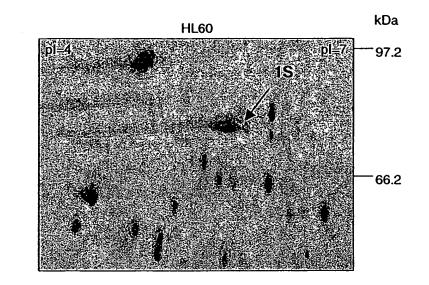
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 MNPTNTVFDAKRLIGRRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVS
 SMVLTKMKEIAEAYLGKTVTNAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAA
 IAYGLDKKVGAERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNH
 FIAEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRA
 RFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELN
 KSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTI
 PTKQTQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDI
 DANGILNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDEKQRDKVSSKN
 SLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIINWLDKNQTAEKEEFEHQQKELE
 KVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD

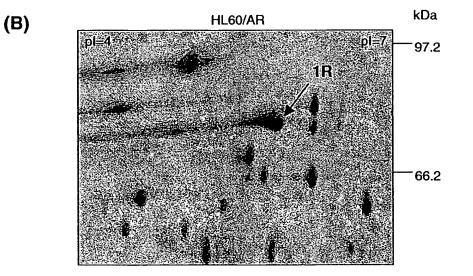
BOLD = Peptides covered by MS MALDI analysis

Figure 3

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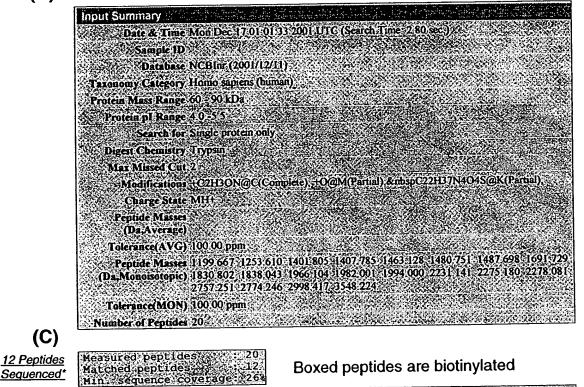


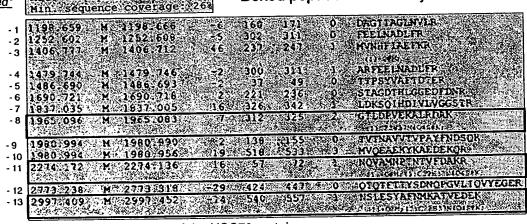
APPLICANT: E. Georges, et al. APPLN. NO.: TBA FILING DATE: December 15, 2003 TITLE: HSC70 Directed Diagnostics and Therapeutics for Multidrug Resistant Neoplastic Disease DOCKET No.: 112418.149 (AUR-011US) 5 of 30

**(A)** 

ProFound - Search Result Summary	Version 4.10.5 ockefeller University Edition
Protein Candidates for search 8085559-6650 286F8326 (88967 sequences searched)	
Rank Probability Est d Z Protein Information and Sequence Analyse Tools (T)	P‰ pl kDa ℗
<ul> <li>1 10e+000 243</li> <li>1 10e+000 243</li> <li>1 10e+000 100</li> <li>1 10e+0000 100</li> <li>1 10e+000000</li> <li>1 10e+000000</li></ul>	26 : :54 7111

### (B) Search Parameters





\*26% of the amino acids of the HSC70 protein were represented in the amino acids of the mass peptides analyzed. Note that 2 and 4 represent the same peptide

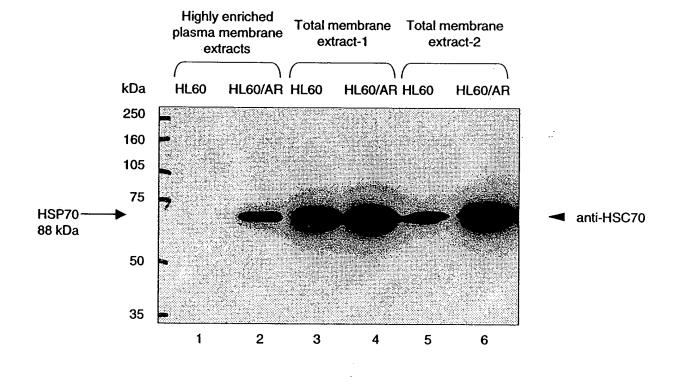
APPLICANT: E Georges, et al. APPLN. NO.: TBA FILING DATE: December 15, 2003 TITLE: HSC70 Directed Diagnostics and Therapeutics for Multidrug Resistant Neoplastic Disease DOCKET No.: 112418.149 (AUR-011US) 6 of 30

MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAK<u>NQVA</u>
 MNPTNTVFDAKR</u>LIGRRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVS
 SMVLTKMKEIAEAYLGKTVTNAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAA
 IAYGLDKKVGAERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNH
 FIAEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRA
 RFEELNADLFR<u>GTLDPVEKALRDAK</u>LDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELN
 KSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTI
 PTKQTQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDI
 DANGILNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDEKQRDKVSSK<u>N</u>
 SLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIINWLDKNQTAEKEEFEHQQKELE
 KVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD

**BOLD** = Nonbiotinylated peptides specific for HSC70 Underlined & Italics = Biotinylated peptides

Figure 6

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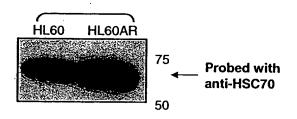
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**Biotinylated total cell extracts** 

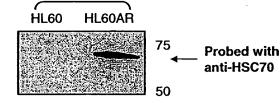


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Figure 8A

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### Streptavidin purified extracts



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Figure 8B

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IP with anti-HSC70 HL60 HL60AR 75 Probed with anti-HSC70 50

### Figure 8C

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IP with anti-HSC70 HL60 HL60AR 75 Probed with streptavidin-HRP

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Figure 8D

APPLICANT: E. Georges, et al. APPLN. NO.: TBA FILING DATE: December 15, 2003 TITLE: HSC70 Directed Diagnostics and Therapeutics for Multidrug Resistant Neoplastic Disease DOCKET No.: 112418.149 (AUR-011US) 12 of 30

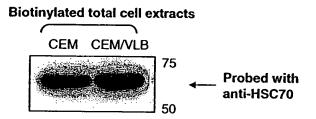
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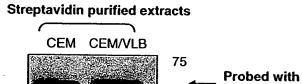


### Figure 9A

APPLICANT: E. Georges, et al. APPLN. NO.: TBA FILING DATE: December 15, 2003 TITLE: HSC70 Directed Diagnostics and Therapeutics for Multidrug Resistant Neoplastic Disease DOCKET No.: 112418.149 (AUR-011US) 13 of 30

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anti-HSC70

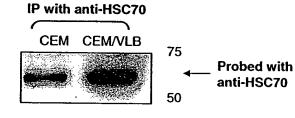
### Figure 9B

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### Figure 9C

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and the second second second

IP with anti-HSC70 CEM CEM/VLB

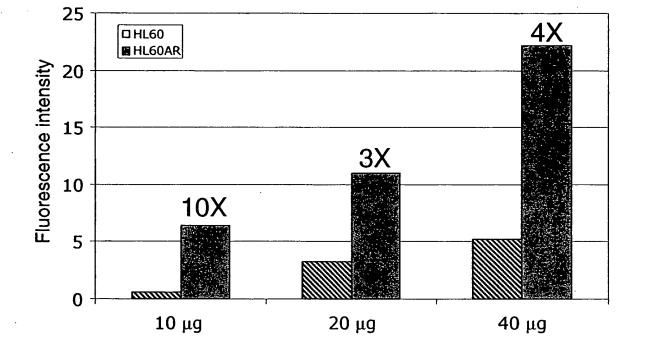
75 Probed with streptavidin-HRP

50

Figure 9D

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### Figure 10A

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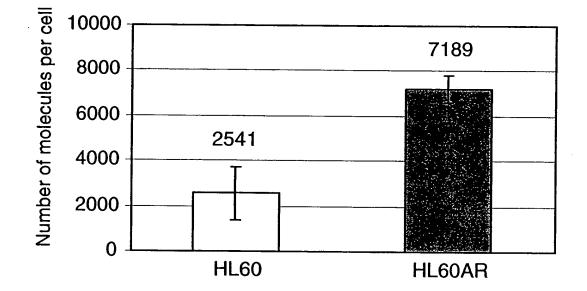
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APPLICANT: E. Georges, et al. APPLN. NO.: TBA FILING DATE: December 15, 2003 TITLE: HSC70 Directed Diagnostics and Therapeutics for Multidrug Resistant Neoplastic Disease DOCKET No.: 112418.149 (AUR-011US) 17 of 30

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### Figure 10B

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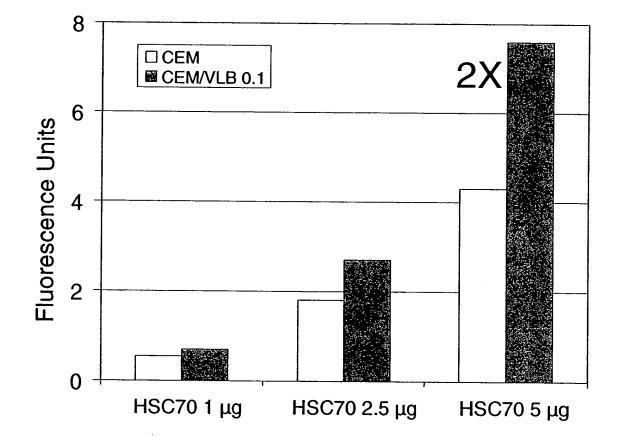
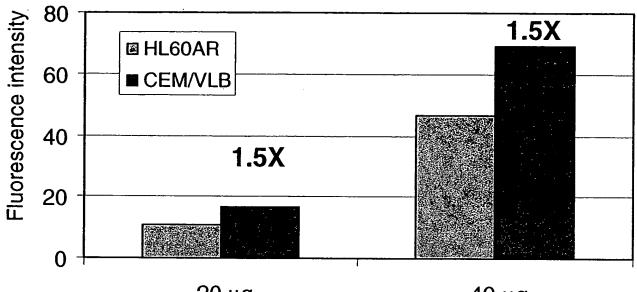


Figure 11A

APPLICAN1: E. Georges, et al. APPLN. NO.: TBA FILING DATE: December 15, 2003 TITLE: HSC70 Directed Diagnostics and Therapeutics for Multidrug Resistant Neoplastic Disease DOCKET No.: 112418.149 (AUR-011US) 19 of 30

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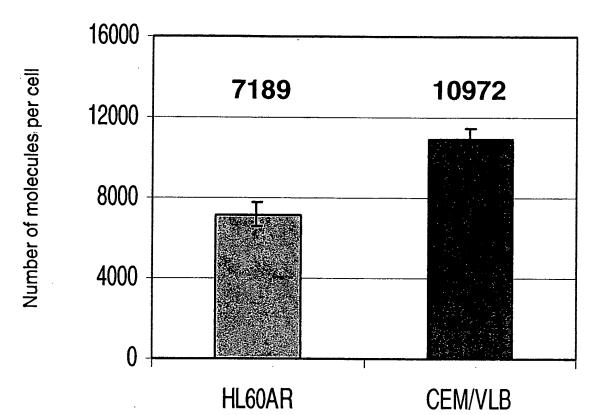


20 µg

40 µg

Figure 11B BEST AVAILABLE COPY

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### Figure 11C

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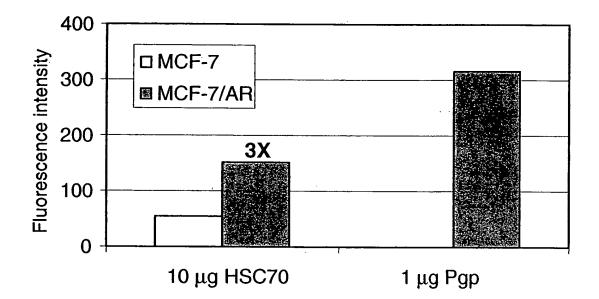


Figure 12A

APPLICAN1: C. Georges, et al. APPLN. NO.: TBA FILING DATE: December 15, 2003 TITLE: HSC70 Directed Diagnostics and Therapeutics for Multidrug Resistant Neoplastic Disease DOCKET No.: 112418.149 (AUR-011US) 22 of 30

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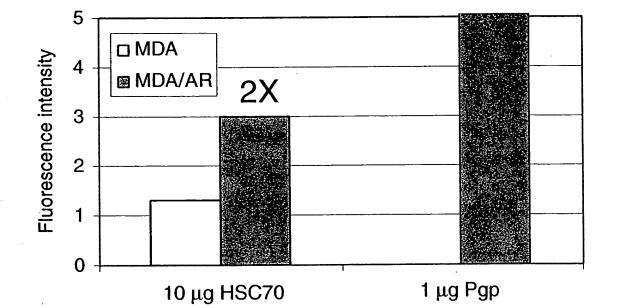


Figure 12B BEST AVAILABLE COPY

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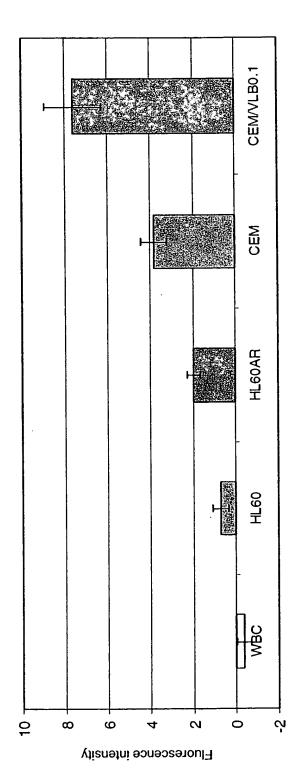


Figure 13A

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### **FIGURE 14**

A

### POLYPEPTIDE SEQUENCE OF HUMAN HSC70 (GENBANK ACCESSION NO. AAK17898 (SEQ ID NO. 1))

1MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVA61MNPTNTVFDAKRLIGRRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVS121SMVLTKMKEIAEAYLGKTVTNAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAA181IAYGLDKKVGAERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNH241FIAEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRA301RFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELN361KSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTI421PTKQTQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDI481DANGILNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDEKQRDKVSSKN541SLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIINWLDKNQTAEKEEFEHQQKELE601KVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD

B

### DNA SEQUENCE OF HUMAN HUMAN HSC70 (GENBANK ACCESSION NO. AF352832 (SEQ ID NO. 2))

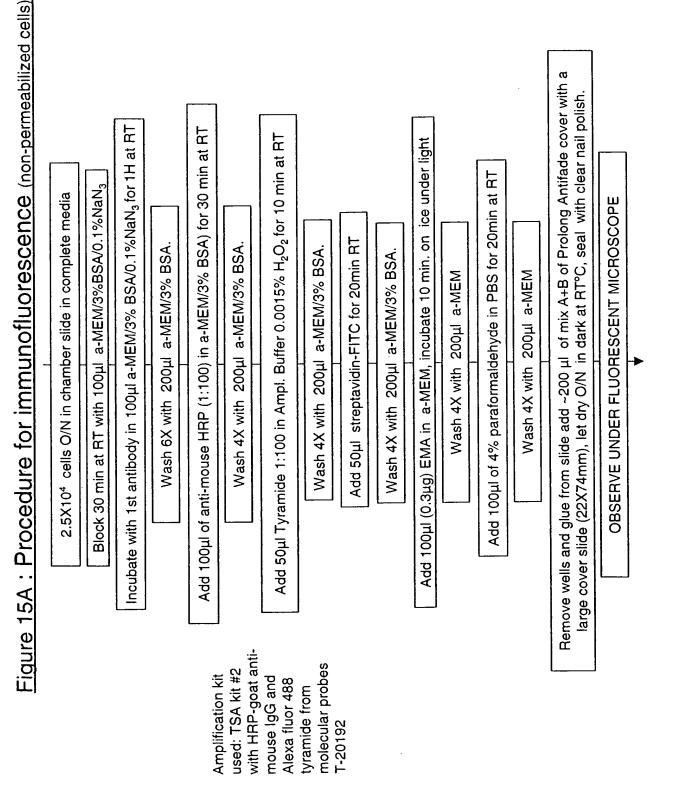
<u>ATG</u>TCCAAGG GACCTGCAGT TGGTATTGAT CTTGGCACCA CCTACTCTTG TGTGGGTGTT
 TTCCAGCACG GAAAAGTCGA GATAATTGCC AATGATCAGG GAAACCGAAC CACTCCAAGC
 TATGTCGCCT TTACGGACAC TGAACGGTTG ATCGGTGATG CCGCAAAGAA TCAAGTTGCA
 ATGAACCCCA CCAACACAGT TTTTGATGCC AAACGTCTGA TTGGACGCAG ATTTGATGAT
 GCTGTTGTCC AGTCTGATAT GAAACATTGG CCCTTTATGG TGGTGAATGA TGCTGGCAGG
 CCCAAGGTCC AAGTAGAATA CAAGGGAGAG ACCAAAAGCT TCTATCCAGA GGAGGTGTCT
 TCTATGGTTC TGACAAAGAT GAAGGAAATT GCAGAAGCCT ACCTTGGGAA GACTGTTACC

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421 AATGCTGTGG TCACAGTGCC AGCTTACTTT AATGACTCTC AGCGTCAGGC TACCAAAGAT 481 GCTGGAACTA TTGCTGGTCT CAATGTACTT AGAATTATTA ATGAGCCAAC TGCTGCTGCT 541 ATTGCTTACG GCTTAGACAA AAAGGTTGGA GCAGAAAGAA ACGTGCTCAT CTTTGACCTG 601 GGAGGTGGCA CTTTTGATGT GTCAATCCTC ACTATTGAGG ATGGAATCTT TGAGGTCAAG 661 TCTACAGCTG GAGACACCCA CTTGGGTGGA GAAGATTTTG ACAACCGAAT GGTCAACCAT 721 TTTATTGCTG AGTTTAAGCG CAAGCATAAG AAGGACATCA GTGAGAACAA GAGAGCTGTA 781 AGACGCCTCC GTACTGCTTG TGAACGTGCT AAGCGTACCC TCTCTTCCAG CACCCAGGCC 841 AGTATTGAGA TCGATTCTCT CTATGAAGGA ATCGACTTCT ATACCTCCAT TACCCGTGCC 901 CGATTTGAAG AACTGAATGC TGACCTGTTC CGTGGCACCC TGGACCCAGT AGAGAAAGCC 961 CTTCGAGATG CCAAACTAGA CAAGTCACAG ATTCATGATA TTGTCCTGGT TGGTGGTTCT 1021 ACTCGTATCC CCAAGATTCA GAAGCTTCTC CAAGACTTCT TCAATGGAAA AGAACTGAAT 1081 AAGAGCATCA ACCCTGATGA AGCTGTTGCT TATGGTGCAG CTGTCCAGGC AGCCATCTTG 1141 TCTGGAGACA AGTCTGAGAA TGTTCAAGAT TTGCTGCTCT TGGATGTCAC TCCTCTTTCC 1201 CTTGGTATTG AAACTGCTGG TGGAGTCATG ACTGTCCTCA TCAAGCGTAA TACCACCATT 1261 CCTACCAAGC AGACACAGAC CTTCACTACC TATTCTGACA ACCAGCCTGG TGTGCTTATT 1321 CAGGTTTATG AAGGCGAGCG TGCCATGACA AAGGATAACA ACCTGCTTGG CAAGTTTGAA 1381 CTCACAGGCA TACCTCCTGC ACCCCGAGGT GTTCCTCAGA TTGAAGTCAC TTTTGACATT 1441 GATGCCAATG GTATACTCAA TGTCTCTGCT GTGGACAAGA GTACGGGAAA AGAGAACAAG 1501 ATTACTATCA CTAATGACAA GGGCCGTTTG AGCAAGGAAG ACATTGAACG TATGGTCCAG 1561 GAAGCTGAGA AGTACAAAGC TGAAGATGAG AAGCAGAGGG ACAAGGTGTC ATCCAAGAAT 1621 TCACTTGAGT CCTATGCCTT CAACATGAAA GCAACTGTTG AAGATGAGAA ACTTCAAGGC 1681 AAGATTAACG ATGAGGACAA ACAGAAGATT CTGGACAAGT GTAATGAAAT TATCAACTGG 1741 CTTGATAAGA ATCAGACTGC TGAGAAGGAA GAATTTGAAC ATCAACAGAA AGAGCTGGAG 1801 AAAGTTTGCA ACCCCATCAT CACCAAGCTG TACCAGAGTG CAGGAGGCAT GCCAGGAGGA 1861 ATGCCTGGGG GATTTCCTGG TGGTGGAGCT CCTCCCTCTG GTGGTGCTTC CTCAGGGCCC 1921 ACCATTGAAG AGGTTGATTA A

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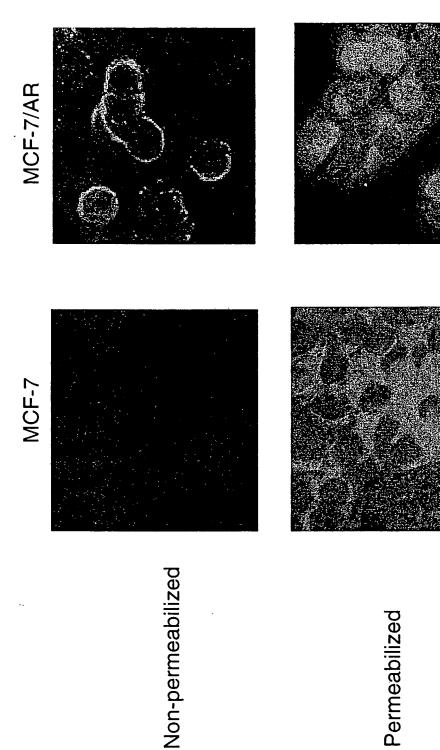


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APPLICANT: E. Georges, et al. APPLN. NO.: TBA FILING DATE: December 15, 2003 TITLE: HSC70 Directed Diagnostics and Therapeutics for Multidrug Resistant Neoplastic Disease DOCKET No.: 112418.149 (AUR-011US) 28 of 30

Figure 16: Immunofluorescence of surface exposed HSC70



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# Figure 17: HSC70 expression

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**MCF7** 

Bu 002 07028H

MCF7/AR

t # slləc bood cells #2 White blood cells #2

White blood cells #3

ացաացւλ მլցով Human SKOV3



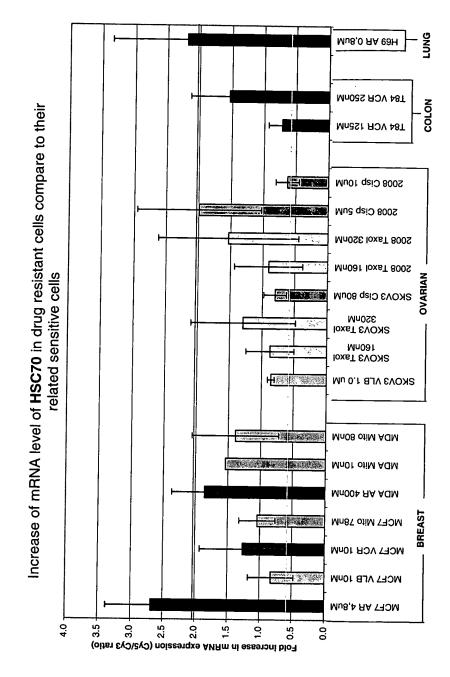
Д Д НSC70 200 ng MDA/AR400nM Млолагу Нитап ргоstate Нитап brostate

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APPLICANT: E. Georges, et al. APPLN. NO.: TBA FILING DATE: December 15, 2003 TITLE: HSC70 Directed Diagnostics and Therapeutics for Multidrug Resistant Neoplastic Disease DOCKET No.: 112418.149 (AUR-011US) 29 of 30

### Figure 18



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